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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,034	08/18/2004	Ping Li	2055.014	5033
41559 7590 12/12/2007 SAMMY CHAN DEPARTMENT OF ELECTRONIC ENGINEERING			EXAMINER	
			KIM, WESLEY LEO	
CITY UNIVERSITY OF HONG KONG TAT CHEE AVENUE		ART UNIT	PAPER NUMBER	
KOWLOON,	KOWLOON, HONG KONG			
HONG KONG				
			MAIL DATE	DELIVERY MODE
			12/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/711,034	LI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Wesley L. Kim	2617			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status		•			
1) Responsive to communication(s) filed on <u>25 September 2007</u> .					
,	•				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 18 August 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		5) Notice of Informal Patent Application			

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DETAILED ACTION

Response to Amendment

This Office Action is in response to Amendments filed 9/25/07.

- Claims 1-2 are currently amended.
- Claims 3-8 are newly added.
- Claims 1-8 are pending in the current Office Action.

Response to Arguments

Applicant's arguments with respect to claims 1-8 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-4, and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants Admitted Prior Art (10/711034) in view of Nakamura et al (US 5920554).

Regarding Claims 1, 3, and 6-8, Applicants Admitted Prior Art teaches (a) assigning a code to each user, where the said code can be the same or different for different users (Par.5) and of the same or different rates for different users (Par.23, a coded sequence is produced for m users and it is well known in the art that rates can be the same or different for different users) and; (b) encoding a source data

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sequence to create a coded source data sequence for each user using an encoder assigned to that user (Par.19); (c) interleaving each coded source data sequence so as to modify an order of said coded source data sequence to produce an interleaved data sequence, wherein interleaved data sequences from different users are distinguished by using different interleaving schemes (Par.20 and 21), however Applicants Admitted Prior Art is silent on (d) assigning a pre-calculated power level to each user, wherein the power level is different for at least some users, and (e) transmitting the interleaved data sequence for each user using the assigned pre-calculated power level for that user.

Nakamura teaches that (d) assigning a pre-calculated power level to each user (Col.5;62-67), wherein Applicants Admitted Art teaches that the power level can be different for at least some users (Par.11, equal and unequal power control), and Honkasalo further teaches (e) transmitting the interleaved data sequence for each user using the assigned pre-calculated power level for that user (Col.5;52-67).

To one of ordinary skill in the art it would have been obvious to modify

Applicants Admitted Prior Art with Nakamura such that, (d) assigning a precalculated power level to each user, wherein the power level is different for at least
some users, and (e) transmitting the interleaved data sequence for each user using
the assigned pre-calculated power level for that user, to provide a method where
radio communication may be performed by using codes with unequal power
allocation so that multi-users may be addressed.

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Regarding Claims 2 and 4, Applicants Admitted Prior Art further teaches wherein at least one of the codes comprises at least one of a hybrid form of narrow sense code, a repeat code and a spreading operation (Par.9).

2. Claims 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants Admitted Prior Art (10/711034) and Nakamura et al (US 5920554) in further view of Sumiya et al (US 5319672).

Regarding Claims 5 and 7, Applicants Admitted Prior Art and Nakamura teach all the limitations as recited in claim 3, however the combination does not expressly teach the assigned codes are the same for at least some of the users.

Sumiya teaches that the assigned codes are the same for at least some of the users (Col.5;50-51).

To one of ordinary skill in the art, it would have been obvious to modify

Applicants Admitted Prior Art and Nakamura with Sumiya such that the assigned

codes are the same for at least some of the users to provide radio communications

by spreading the digital information to the receiving ends.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wesley L. Kim whose telephone number is 571-272-7867. The examiner can normally be reached on Monday-Friday 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

WLK

GEORGE ENG